

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US98/16971**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) : C12Q 1/68; C12P 19/34; G06K 9/00; G05B 15/00

US CL : 435/6, 91.2; 382/225; 364/130

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 91.2; 382/225; 364/130

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 5,830,645 A (PINKEL et al) 03 November 1998, see entire document.	1-22
Y, P	US 5,837,832 A (CHEE et al) 17 November 1998, see entire document.	1-22
Y	WO 97/29212 A1 (AFFYMETRIX, INC.) 14 August 1997, see entire document.	1-22
Y	WO 97/27317 (AFFYMETRIX, INC.) 31 July 1997, see entire document.	1-22
Y	LIPSHUTZ et al. Using oligonucleotide probe arrays to access genetic diversity. Biotechniques. 1995, Vol. 19, No. 3, pages 442-447, see entire document.	1-22



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*B* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means	
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

16 DECEMBER 1998

Date of mailing of the international search report

27 JAN 1999

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Authorized officer

JEFFREY FREDMAN

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International application No.  
PCT/US98/16971

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<b>SCHENA</b> et al. Parallel human genome analysis: microarray based expression monitoring of 1000 genes. Proc. Natl. Acad. Sci. October 1996, Vol. 93, pages 10614-10619, see entire document.	1-22
Y	<b>SCHENA. M.</b> Genome analysis with gene expression microarrays. Bioessays. 1996, Vol. 18, No. 5, pages 427-431, see entire document.	1-22
Y, P	<b>ERMOLAEVA</b> et al. Data management and analysis for gene expression arrays. Nature Genetics. 20 September 1998, Vol. 20, pages 19-23, see entire document.	1-22

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## B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

APS, MEDLINE, BIOSIS, CAPLUS, EMBASE, ENERGY, INPADOC, IFIPAT, WPIDS

search terms: hybridization, anneal, DNA, RNA, nucleic, oligo, oligonucleotide, primer, probe, computer, software, program, cluster, array, microarray, biochip, chip

